

Form PTO-1449 (modified)

Atty. Docket No.

MAXC:009US

Serial No.

10/080,272

List of Patents and Publications for Applicant's

Applicant

Sergey M. Dzekunov *et al.*

INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

Filing Date:

February 21, 2002

Group:

3761 1676

U.S. Patent Documents

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## U.S. Patent Documents

Exam. Init.	Ref. Des.	Document Number	Date	Name	Class	Sub Class	Filing Date of App.
	A1	2001/0001064	5/10/01	Holaday	435	173.6	12/14/00
	A2	2,955,076	10/4/60	Gossling			10/4/56
	A3	3,676,325	7/11/72	Smith <i>et al.</i>	204	288	6/8/70
	A4	4,075,076	2/21/78	Xylander	204	206	9/30/75
	A5	4,081,340	3/28/78	Zimmermann <i>et al.</i>	204	180	1/25/77
	A6	4,192,869	3/11/80	Nicolau <i>et al.</i>	424	199	10/17/78
	A7	4,252,628	2/24/81	Boulton <i>et al.</i>	204	257	2/23/78
	A8	4,321,259	3/23/82	Nicolau <i>et al.</i>	424	101	3/22/79
	A9	4,440,386	4/3/84	Achelpohl	271	70	3/4/82
	A10	4,473,563	9/25/84	Nicolau <i>et al.</i>	424	224	11/2/81
	A11	4,476,004	10/9/84	Pohl	204	299	10/26/83
	A12	4,478,824	10/23/84	Franco <i>et al.</i>	424	101	8/8/83
	A13	4,622,302	11/11/86	Sowers	435	172.2	8/9/84
	A14	4,652,449	3/24/87	Ropars <i>et al.</i>	424	101	10/27/83
	A15	4,663,292	5/5/87	Wong <i>et al.</i>	435	287	
	A16	4,695,547	9/22/87	Hilliard <i>et al.</i>	435	173	4/2/86
	A17	4,699,881	10/13/87	Matschke	435	173	6/4/86
	A18	4,752,586	6/21/88	Ropars <i>et al.</i>	435	287	11/20/86
	A19	4,764,473	8/16/88	Matschke <i>et al.</i>	435	287	11/4/86
	A20	4,784,737	11/15/88	Ray <i>et al.</i>	204	180.1	4/18/86
	A21	4,800,163	1/24/89	Hibi <i>et al.</i>	435	287	12/15/87
	A22	4,804,450	2/14/89	Mochizuki <i>et al.</i>	204	299	12/10/86
	A23	4,822,470	4/18/89	Chang	204	299	10/9/87

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Exam. Init.	Ref. Des.	Document Number	Date	Name	Class	Sub Class	Filing Date of App.
	A24	4,840,714	6/20/89	Littlehales	204	180.1	5/13/87
	A25	4,849,089	7/18/89	Marshall, III	204	299	2/21/89
	A26	4,849,355	7/18/89	Wong	435	172.3	12/30/87
	A27	4,874,690	10/17/89	Goodrich, Jr. <i>et al.</i>	435	2	8/26/88
	A28	4,882,281	11/21/89	Hilliard <i>et al.</i>	435	287	8/26/86
	A29	4,906,576	3/6/90	Marshall, III	435	287	5/8/87
	A30	4,910,140	3/20/90	Dower	435	172.3	4/18/88
	A31	4,923,814	5/8/90	Marshall, III	435	173	4/26/89
	A32	4,931,276	6/5/90	Franco <i>et al.</i>	424	533	3/13/89
	A33	4,945,050	7/31/90	Sanford <i>et al.</i>	435	172.1	11/13/84
	A34	4,946,793	8/7/90	Marshall, III	435	291	12/12/88
	A35	4,956,288	9/11/90	Barsoum	435	172.3	4/22/88
	A36	4,970,154	11/13/90	Chang	435	172.2	8/30/88
	A37	4,995,957	2/26/91	Ziegler <i>et al.</i>	204	182.8	5/9/88
	A38	5,007,995	4/16/91	Takahashi <i>et al.</i>	204	299	5/11/89
	A39	5,036,006	7/30/91	Sanford <i>et al.</i>	435	170.1	8/17/89
	A40	5,043,261	8/27/91	Goodrich <i>et al.</i>	435	2	6/2/89
	A41	5,098,843	3/24/92	Calvin	435	287	7/9/90
	A42	5,100,627	3/31/92	Buican <i>et al.</i>	422	108	11/30/89
	A43	5,100,792	3/31/92	Sanford <i>et al.</i>	435	172.1	1/24/89
	A44	5,114,681	5/19/92	Bertoncini <i>et al.</i>	422	111	3/9/90
	A45	5,124,259	6/23/92	Tada	435	172.1	8/22/90
	A46	5,128,257	7/7/92	Baer	435	173	8/31/87

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<input checked="" type="checkbox"/>	A50	5,139,684	8/18/92	Kaali <i>et al.</i>	210	748	11/16/90
<input checked="" type="checkbox"/>	A51	5,232,856	8/3/93	Firth	435	287	7/30/90
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## Foreign Patent Documents

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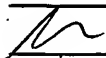
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## Foreign Patent Documents


Exam. Init.	Ref. Des.	Document Number	Date	Country	Class	Sub Class	Translation Yes/No
	B29	WO 89/03426	4/20/89	PCT			
	B30	WO 91/18103	11/28/91	PCT			
	B31	WO 94/21117	9/29/94	PCT			
	B32	WO 96/28199	3/11/96	PCT			
	B33	WO 98/24490	6/11/98	PCT			

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## Other Art (Including Author, Title, Date Pertinent Pages, Etc.)

Exam. Init.	Ref. Des.	Citation
	C1	"Advanced Coatings for the Medical Industry," Multi-Arc Scientific Coatings, Copyright © Andal Corp.
	C2	"Biological Buffers," In: <i>The Biological Engineering Handbook</i> , Bronzino (ed.), CRC Press, pp. 1650, c1995.
	C3	"Ion Bond® 16 Zirconium Nitride Coating," Multi-Arc, Inc., 1996.
	C4	"Ion Bond® 17 Titanium Aluminum Nitride Coating," Multi-Arc, Inc., 1995.
	C5	"Ion Bond® 19 Chromium Nitride Coating," Multi-Arc, Inc., 1995.
	C6	"Ion Bond® Coatings for Instruments, Design Considerations," Multi-Arc, Inc., 1995.
	C7	"Ion Bond® Coatings for Instruments, Most Commonly Asked Questions," Multi-Arc, Inc., 1995.
	C8	"Preparation of certain reagents, anticoagulants and preservative solutions," In: <i>Practical Haematology</i> , 5 <sup>th</sup> Edition, Dacie and Lewis (eds.), Appendices, pp.598, 1975
	C9	"The Ion Bond Network," Multi-Arc, Inc., 1995.
	C10	Abatti <i>et al.</i> , "Development of a new geometrical form of micropipette: electrical characteristics and an application as a potassium ion selective electrode," <i>IEEE Trans. Biomed. Eng.</i> , 39:43-48, 1992.

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<i>h</i>	C11	Asakami <i>et al.</i> , "Materials for electrode of alkali metal thermoelectric converter (AMTEC) (II)," <i>J. Mater. Sci. Lett.</i> , 9(8):892-894, 1990.
	C12	Behrndt and Lunk, "Biocompatibility of TiN preclinical and clinical investigations," <i>Materials Sciences &amp; Engineering</i> , A139:58-60, 1991.
	C13	Capizzi <i>et al.</i> , "Amifostine mediated protection of normal bone marrow from cytotoxic chemotherapy," <i>Cancer</i> , 72:3495-3501, 1993.
	C14	Chassy <i>et al.</i> , "Transformation of bacteria by electroporation," <i>Trends in Biotechnology</i> , 6(12):303-309, 1988.
	C15	Coll <i>et al.</i> , "Metallurgical and Tribological modification of titanium and titanium alloys by plasma assisted techniques," <i>Workshop H Society for Biomaterials Implant Retrieval Symposium</i> , September 17, 1992.
	C16	Duncan and Shivan, "High frequency transformation of whole cells of amino acid producing coryneform bacteria using high voltage electroporation," <i>Bio/Technology</i> , 7:1067-1070, 1988.
	C17	Egorov and Noikova, "Effect of phase composition of TiN-Ni sintered electrode materials of characteristics of the ESA process," <i>Sov. Powder Metall Met. Ceram.</i> , 29(9):705-710, 1991.
	C18	Einck and Holaday, "Enhancement of tissue oxygenation by intracellular introduction of inositol hexaphosphate by flow electroporation of red blood cells," In: <i>Tissue Oxygenation in Acute Medicine (Update in Intensive Care and Emergency Medicine</i> , 33), Sibbald <i>et al.</i> , (eds.), pp. 357-374, c1998.
	C19	Gersonde and Nicolau, "Enhancement of the O <sub>2</sub> release capacity and of the Bohr-effect of human red blood cells after incorporation of inositol hexaphosphate by fusion with effector-containing lipid vesicles," In: <i>Origins of Cooperative Binding by Hemoglobin</i> , 277-282, 1982.
	C20	Gersonde and Nicolau, "Improvement of the red blood cell O <sub>2</sub> release capacity by lipid vesicle-mediated incorporation of inositol hexaphosphate," <i>Blut</i> , 39:1-7, 1979.
	C21	Gersonde and Nicolau, "Modification of the oxygen affinity of intracellular haemoglobin by incorporation of polyphosphates into intact red blood cells and enhanced O <sub>2</sub> release in the capillary system," <i>Bibliotheca Haemat.</i> , 46:81-92, 1980.
	C22	Gersonde and Weiner, "The influence of infusion rate on the acute intravenous toxicity of phytic acid, a calcium-binding agent," <i>Toxicology</i> , 22:279-286, 1982.

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<i>[Handwritten mark]</i>	C23	Hirai <i>et al.</i> , "A new antitumor antibiotic, FR-900482" <i>J. of Antibiotics</i> , 40/5:607-611, 1987.
	C24	Hofmann and Evans, "Electronic genetic—physical and biological aspects of cellular electromanipulation," <i>IEEE Engineering in Medicine and Biology Magazine</i> , 6-11, 19-22, 1986.
	C25	Kinosita and Tsong, "Voltage-induced conductance in human erythrocyte membranes," <i>Biochimica et Biophysica Acta</i> , 554:479-497, 1979.
	C26	Kobayashi <i>et al.</i> , "Fabrication of zirconium nitride sintered bodies and the application for electrode materials," <i>J. Ceram. Soc. Jpn.</i> , 97(10):1189-1194, (with English summary), 1989.
	C27	Kullmann <i>et al.</i> , "In vitro effects of pentoxifylline on smooth muscle cell migration and blood monocyte production of chemotactic activity for smooth muscle cells: potential therapeutic benefit in the adult respiratory distress syndrome," <i>Am J. Respir. Cell</i> , 8:83-88, 1993.
	C28	Kurtz and Gordon, "Transparent conducting electrodes on silicon," <i>Sol. Energy Mater.</i> , 15(4):229-236, 1987.
	C29	Lehninger (ed.), In: <i>Principles of Biochemistry</i> , Chapter 8: 181-194, 1982.
	C30	Maurer <i>et al.</i> , "Reduction of fretting corrosion of Ti-6Al-4V by various surface treatments," <i>J. Orthop. Res.</i> , 11:865-873, 1993.
	C31	Merz <i>et al.</i> , "Determination of HIV infection in human bone," <i>Unfallchirurg</i> , 941:47-49, (with English summary), 1991.
	C32	Mouneimne <i>et al.</i> , "Stable rightward shifts of the oxyhemoglobin dissociation curve induced by encapsulation of inositol hexaphosphate in red blood cells using electroporation," <i>FEBS Letters</i> , 275:117-120, 1990.
	C33	Narayan <i>et al.</i> , "Diamond, diamond-like and titanium nitride biocompatible coatings for human body parts," <i>Materials Sciences &amp; Engineering</i> , B25:5-10, 1994.
	C34	Nicolau <i>et al.</i> , "Incorporation of allosteric effectors of hemoglobin in red blood cells. Physiological effects," <i>Bibliotheca haemat.</i> , 51:92-107, 1985.
	C35	Nicolau <i>et al.</i> , "Short- and long-term physiological effects of improved oxygen transport by red blood cells containing inositol hexaphosphate," In: <i>Phytic Acid: Chemistry and Applications</i> , Graf (ed.), Chapter 16:265-290, 1986.
	C36	Pietra <i>et al.</i> , "Titanium nitride as a coating for surgical instruments used to collect human tissue for trace metal analysis," <i>Analyst</i> , 115:1025-1028, 1990.

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Form PTO-1449 (modified)

Office of Patents and Publications for Applicant's

## INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

Atty. Docket No.

MAXC:009US

Serial No.

10/080,272

Applicant

Sergey M. Dzekunov *et al.*

Filing Date:

February 21, 2002

Group:

3761-1636

U.S. Patent Documents

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Foreign Patent Documents

See Page 3

Other Art

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Exam. Init.	Ref. Des.	Citation
<i>Ref</i>	C37	Ropars <i>et al.</i> , "Improved oxygen delivery to tissues and iron chelator transport through the use of lysed and resealed red blood cells: a new perspective on cooley's anemia therapy," <i>Annals New York Academy of Sciences</i> , 445:304-315, 1985.
	C38	Satomi <i>et al.</i> , "Tissue response to implanted ceramic-coated titanium alloys in rats," <i>J. Oral Rehab.</i> , 15:339-345, 1988.
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	C43	Tait and Aita, "Aluminum nitride as a corrosion protection coating for steel: self-sealing porous electrode model," <i>Surf. Eng.</i> , 7(4):327-330, 1991.
	C44	Teisseire <i>et al.</i> , "Physiological effects of high-P <sub>50</sub> erythrocyte transfusion on piglets," <i>J. Appl. Phys.</i> , 58:1810-1817, 1985.
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	C50	Weisel <i>et al.</i> , "Adverse effects of transfusion therapy during abdominal aortic aneurysectomy," <i>Surgery</i> , 83:682-690, 1978.

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*J. Ketter*

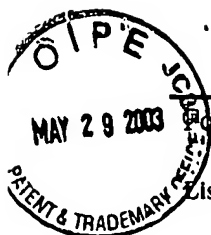
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List of Patents and Publications for Applicant's  INFORMATION DISCLOSURE STATEMENT  (Use several sheets if necessary)		Applicant Sergey M. Dzekunov <i>et al.</i>	
		Filing Date: February 21, 2002	Group: 3761 / 636
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**Other Art (Including Author, Title, Date Pertinent Pages, Etc.)**

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	C51	Wisbey <i>et al.</i> , "Application of PVD TiN coating to Co-Cr-Mo based surgical implants," <i>Biomaterials</i> , 8:477-480, 1987.
	C52	Wisbey <i>et al.</i> , "Titanium release from TiN coated implant materials," <i>ImechE</i> , C384/042:9-14, 1989.
	C53	Zhao <i>et al.</i> , "Direct current (dc)-plasma CVD equipment with auxiliary heating electrodes," <i>Vacuum</i> , 42(17):1109-1111, 1991.
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